

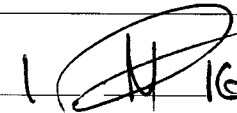
Work Order ID 141285***141285***

Page 1

Wednesday, February 03, 2016 2:51:53 PM

Item ID: 647.7303 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: EC135 Cable Cutters (Removable Provisions Only)
Start Date: 2/3/2016 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 2/5/2016 Req'd Qty: 1.00 ***1*** Customer:
Reference: FOR COSTING ONLY SEE W/O 138078 *
Approvals: Process Plan:  Date: 16-2-3 Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
647.7300	A								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging	PULL FROM STOCK 647.7303 B:138078 647.7501 B:136950 <u>FOR COSTING PURPOSE ONLY</u> RECEIVE UNDER ORIGINAL BATCH OF COMPLETE KIT 138078								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control	QC 21 DONE ON COSTED W/O 138078								

 16-2-3 16-2-3

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																																													
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval																																																																											
Description Work Order Deviation		Disposition																																																																													
				Completed By																																																																											
				Lead hand / Supervisor Approval Verification																																																																											
				QC / QA Coordinator Approval																																																																											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: left;">Root Cause</th> <th colspan="3" style="text-align: left;">FAULT CATEGORY</th> </tr> </thead> <tbody> <tr> <td>Environment ☐</td> <td>No Re-verification ☐</td> <td>Pressure/Forced ☐</td> <td>Temperature/Cure ☐</td> <td>Power Loss/Surge ☐</td> <td>Positioned Wrong ☐</td> </tr> <tr> <td>Design ☐</td> <td>Operator ☐</td> <td>Bending ☐</td> <td>Set-up ☐</td> <td>Folio/Program ☐</td> <td>Outside Dimensions ☐</td> </tr> <tr> <td>Doc/Data ☐</td> <td>Offset/Setup ☐</td> <td>Centre Not Concentric ☐</td> <td>BOM/Route ☐</td> <td>Grain ☐</td> <td>Over/Under tolerance ☐</td> </tr> <tr> <td>Equip/Tooling ☐</td> <td>Supplier ☐</td> <td>Cracks ☐</td> <td>Broken/Damage/Defect ☐</td> <td>Weld ☐</td> <td>Part Incorrect ☐</td> </tr> <tr> <td>Handling/Pre ☐</td> <td>Training ☐</td> <td>Crimp/Kink/Ripple/Wave ☐</td> <td>Inspection Incomplete/Unqualified ☐</td> <td>Wrong Stock Pulled ☐</td> <td>Part Lost/Missing ☐</td> </tr> <tr> <td>Material ☐</td> <td>Use for Testing ☐</td> <td>Cuffs ☐</td> <td>Contamination ☐</td> <td>Out of Sequence ☐</td> <td>Part Moved ☐</td> </tr> <tr> <td>Internal Transport ☐</td> <td>Poor Information ☐</td> <td>Crushing ☐</td> <td>Countersink ☐</td> <td>Off-set ☐</td> <td>Drawing ☐</td> </tr> <tr> <td>Tribal Knowledge ☐</td> <td>Rushing ☐</td> <td>Heat Treat ☐</td> <td>Cut Too Short ☐</td> <td>Mislabeled ☐</td> <td>Finish ☐</td> </tr> <tr> <td>LOA ☐</td> <td>Product Improvement ☐</td> <td>Wave/Twist in Tube ☐</td> <td>Instructions Incomplete/Unclear ☐</td> <td>Fit/Function ☐</td> <td>Misread ☐</td> </tr> <tr> <td>Substation ☐</td> <td>Process Improvement ☐</td> <td>Marks/Chatter ☐</td> <td>Drill Holes ☐</td> <td>Misaligned/off center ☐</td> <td>Turning Sequence ☐</td> </tr> <tr> <td>Past Expiry Date ☐</td> <td>Manufacturing Process ☐</td> <td colspan="4" rowspan="2" style="text-align: center; vertical-align: top;">OTHER : ☐</td> </tr> <tr> <td>Misidentified ☐</td> <td>Past Due ☐</td> </tr> </tbody> </table>						Root Cause			FAULT CATEGORY			Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : ☐				Misidentified ☐	Past Due ☐
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Misidentified ☐	Past Due ☐																																																																														

Wednesday, February 03, 2016 2:51:59 PM

141285

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 2/3/2016

Required Date: 2/5/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.10.05 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
647.7303		Manufactured	No				Each	0.0000		①			
647 7303									**	138078		16-2-3	
EC135 Cable Cutters (Removable Provisions Only)													
647.7501		Manufactured	No				Each	0.0000		①			
647 7501									**	136950		16.2-3	
Lower Cutter Assembly													

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QS1042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
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Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
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Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Work Order ID 138078-2

October 23, 2015 10:55:28 AM

(141285) *138078*

Ship Nov 20/15
50123628 Metro
50123627

Page 1

Item ID: 647.7303

Accept

N900040100

Setup Start

NS1

Revision ID:

Item Name: EC135 Cable Cutters (Removable Provisions Only)

Stop

NS2

Start Date: 10/23/2015 Start Qty: 2.00

2

Cust Item ID:

Required Date: 11/19/2015 Req'd Qty: 2.00

2

Customer:

Reference:

Approvals:

Process Plan: S/A

20151023
Date:

Tooling:

Date:

Run Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
647.7300	A

100 Document Control 0.00

100

DOCUMENT CONTROL

DC Memo 0.00

Doc.Control -USB or Paperwork Photocopy bluefile & type labels per PPP 647.7303

DAS
28
9-89

FEB 03 2016

110 Pick Kit 0.00

110

Packaging Memo 0.00

Packaging

SMS
15/11/24

DAS
6
9-89

DAS
28
9-89

120 QC4- 100% Inspect kits for completeness 0.00

120

QC Memo 0.00

Quality Control

DAS
28
9-89

FEB 03 2016

Work Order ID 138078

138078

Page 2

October 23, 2015 10:55:28 AM

Item ID: 647.7303 Accept *N900040100* Setup Start *NS1*
 Revision ID: Stop *NS2*
 Item Name: EC135 Cable Cutters (Removable Provisions Only)
 Start Date: 10/23/2015 Start Qty: 2.00 *2* Cust Item ID:
 Required Date: 11/19/2015 Req'd Qty: 2.00 *2* Customer:
 Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start *NR1*
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Packaging	0.00							
130						DAS 28 9-89		FEB 03 2016	
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP 647.7303								
	Location: 107								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

W/O COSTED
 Adjusted in.
 SEE 141285
 16/02/03
 16-2-3

Picklist Print

Page 1

October 23, 2015 10:59:29 AM

Work Order ID: 138078

138078

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 10/23/2015

Required Date: 11/19/2015

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP REV:A 12.10.05 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
647.7401 *647 7401* Upper Cutter Assembly DAS 28 9-89		Manufactured	No				Each	0.0000	1	2			
647.7501 *647 7501* Lower Cutter Assembly DAS 28 9-89		Manufactured	No				Each	0.0000	1	2			
647.1701 *647 1701* Skid Deflector Assembly DAS 28 9-89		Manufactured	No				Each	1.0000	2	4			
					<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>			
					CCK033			1					
					135086			1					
647.7702 *647 7702* Strut Assembly DAS 28 9-89		Manufactured	No				Each	4.0000	2	4			
					<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>			
					CCK051			4					
					M130388			4					
647.7701 *647 7701* Strut Assembly DAS 28 9-89		Manufactured	No				Each	5.0000	2	4			
					<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>			
					CCK114			5					
					M130388			5					

Picklist Print

Page 2

October 23, 2015 10:55:33 AM

Work Order ID: 138078

138078

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 10/23/2015

Required Date: 11/19/2015

Start Qty: 2.00

Required Qty: 2.00

647.0112

Manufactured No

Each

123.0000

**

4 8

DAS
6
9-89

647 0112

Strut Bracket

SMB

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK032a

114

123318

22

M130388

92

CCK107

1

122245

1

CCK109

8

122871

8

123318

0

Each

18.0000

**

4 8

DAS
6
9-89

AN665-34R

Purchased No

AN665-34R

Clevis

DAS
28
9-89

Location

Loc Qty

Loc Code

ST330

18

M130388

4

M133134

14

Each

150.0000

**

4 8

DAS
6
9-89

AN3-11A

Purchased No

AN3-11A

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

ST338a

50

m133363

50

ST349

100

m132823

8

m133234

92

SMB

15/11/85

Picklist Print

Page 3

October 23, 2015 10:55:33 AM

Work Order ID: 138078

138078

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 10/23/2015

Required Date: 11/19/2015

Start Qty: 2.00

Required Qty: 2.00

AN4C7A Purchased No Each 56.0000 ****** DAS 6 9-89
AN4C7A
 BOLT

DAS
28
9-89

Location

Loc Qty

Loc Code

ST340

20

m133363

20

ST345

36

m127363

36

Each

140.0000

NAS6603-12

Purchased

No

NAS6603-12

Bolt

Location

Loc Qty

Loc Code

ST261

140

123900

128

m130388

12

Each

35.0000

NAS6603-16

Purchased

No

NAS6603-16

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

ST261

35

m128199

23

m130388

12

Each

116.0000

NAS6604-66

Purchased

No

NAS6604-66

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

ST261

116

124328

72

m130388

44

October 23, 2015 10:55:33 AM

Shop Packet Print

Page 3

Picklist Print

October 23, 2015 10:55:33 AM

Work Order ID: 138078

138078

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 10/23/2015

Required Date: 11/19/2015

Start Qty: 2.00

Required Qty: 2.00

MS21042-08

MS21042L08

Purchased

No

Each

33.0000

MS21042-08

USE MS21042L08

**

12
132930

Shp

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST304

25

122815

25

ST306

8

m130388

8

MS21042-3

MS21042L3

Purchased

No

Each

329.0000

MS21042-3

Nut / use MS21042L3

**

4 8

Shp

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST305

329

M128770

10

M129541

15

M129682

281

M130388

23

15/11/25

Picklist Print

Page 5

October 23, 2015 10:55:33 AM

Work Order ID: 138078

138078

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 10/23/2015

Required Date: 11/19/2015

Start Qty: 2.00

Required Qty: 2.00

MS21042L4

Purchased

No

Each

2,760.000

16

MS21042L 4

Locknut

**

SMB

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK004

2000

m133363

2000

16

FP001

2

m124231

2

GA

67

m127813

67

ST260a

138

m130799

56

m131803

6

m132262

76

ST305

553

m128300

8

m130388

7

m130922

97

m131618

12

m132123

56

m132382

273

m133316

100

Each

53.0000

4 8

**

SMB

DAS
6
9-89

AN316C4R

Purchased

No

AN316C4R

NUT

DAS
28
9-89

Location

Loc Qty

Loc Code

ST331

53

m127618

3

m133234

50

3
3

15/11/25

October 23, 2015 10:55:33 AM

Shop Packet Print

Page 5

Picklist Print

October 23, 2015 10:55:33 AM

Work Order ID: 138078

138078

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 10/23/2015

Required Date: 11/19/2015

Start Qty: 2.00

Required Qty: 2.00

DAS
6
9-89

MS27039-08-13

Purchased

No

Each

370.0000

4 8

MS27039-08-13

Screw

**

SMB

✓

DAS
28
9-89

Location

Loc Qty

Loc Code

cck007a

346

124326

346

ST281

24

4067

20

M130388

4

8

DAS
6
9-89

MS27039-08-16

Purchased

No

Each

106.0000

2 4

MS27039-08-16

SCREW PAN HD

**

SMB

✓

DAS
28
9-89

Location

Loc Qty

Loc Code

CA

48

112466

48

ST281

58

M130388

58

4

NAS1149FN832P

Purchased

No

Each

2,232.000

12 24

NAS1149FN832P

Washer

**

SMB

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

346

125268

346

ST260a

500

M133316

500

ST267

465

125268

100

M133284

365

st268

921

M130388

921

24

15/11/24

Picklist Print

October 23, 2015 10:55:33 AM

Work Order ID: 138078

138078

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 10/23/2015

Required Date: 11/19/2015

Start Qty: 2.00

Required Qty: 2.00

NAS1149F0332P

Purchased

No

Each

1,672.000

18 24

SMB

DAS
6
9-89

NAS1149F0332P

Washer

DAS
28
9-89

✓

Location

Loc Qty

Loc Code

GA	162	
122063	162	
ST260a	1393	
m128401	6	
m131026	80	
m131697	50	
<u>m133134</u>	600	24
m133284	500	
m133316	157	
st268	117	
123900	7	
m130388	86	
m133077	24	

NAS1149F0432P

Purchased

No

Each

1,040.000

16

SMB

DAS
6
9-89

NAS1149F0432P

WASHER

DAS
28
9-89

✓

Location

Loc Qty

Loc Code

ST260a	500	
M132551	500	
st268	540	
M128995	63	
M130388	8	
M132677	125	
<u>M133234</u>	344	14

Picklist Print

October 23, 2015 10:55:33 AM

Page 8

Work Order ID: 138078

138078

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 10/23/2015

Required Date: 11/19/2015

Start Qty: 2.00

Required Qty: 2.00

601.2045

Purchased

No

Each

12.0000

1 2

**

DAS

6

9-89

601 2045

RTV (LOCTITE 598)

DAS
28
9-89

Location

CCK096

Loc Qty

12

12

Each

Loc Code

✓

5/31/2017

1,152.000

**

8 16

SMB

SMB
15/11/25

NAS1149F0463P

Purchased

No

NAS1149F0463P

Washer

Location

ST260a

m127832

st268

m127832

m130388

Loc Qty

973

973

179

163

16

Loc Code

✓

16

DAS
28
9-89

DAS

6

9-89

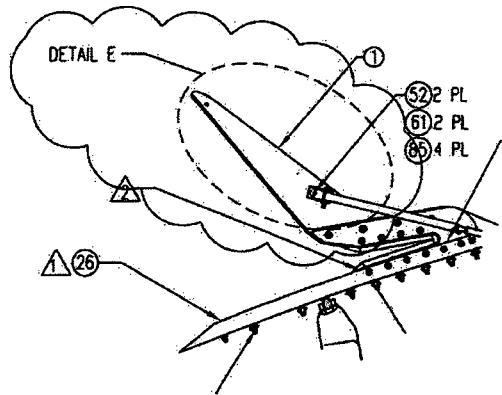
20151023
54138078

APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 03044				SHEET 1 OF 1	
	DWG NO. 647.7300	REV: N/C	PREPARED BY J. JACKSON	DATE: 01/20/11	EFFECT ON DWG ☐ INC. ☒ UNINC.	
	DWG TITLE: EC135 CABLE CUTTERS KIT					
APPROVED BY: ENGR. <i>[Signature]</i>		MFG <i>[Signature]</i>		QC <i>[Signature]</i>		EFF: NEXT ORDER
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE		REASON: ADDED GPS MOUNT KIT, F/N 100. REVISED DRAWING VIEWS. ADDED NOTE 6.				

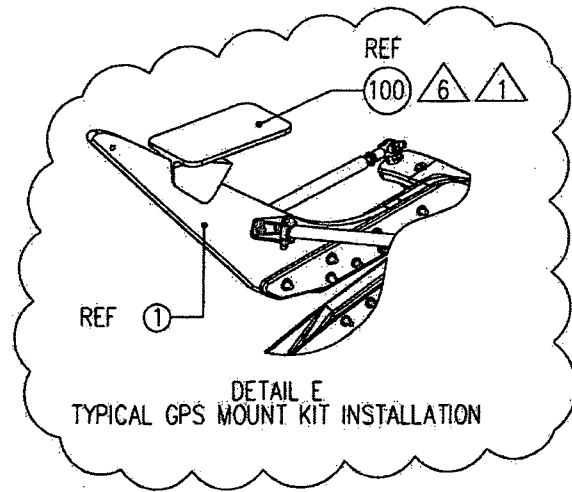
SHEET 1, ZONE A1 IS:

△ AT CUSTOMERS OPTION, INSTALL F/N 100 BY MATCH DRILLING ONTO F/N 1.

SHEET 2, ZONE A2 IS:



SHEET 2, ZONE C6 IS:

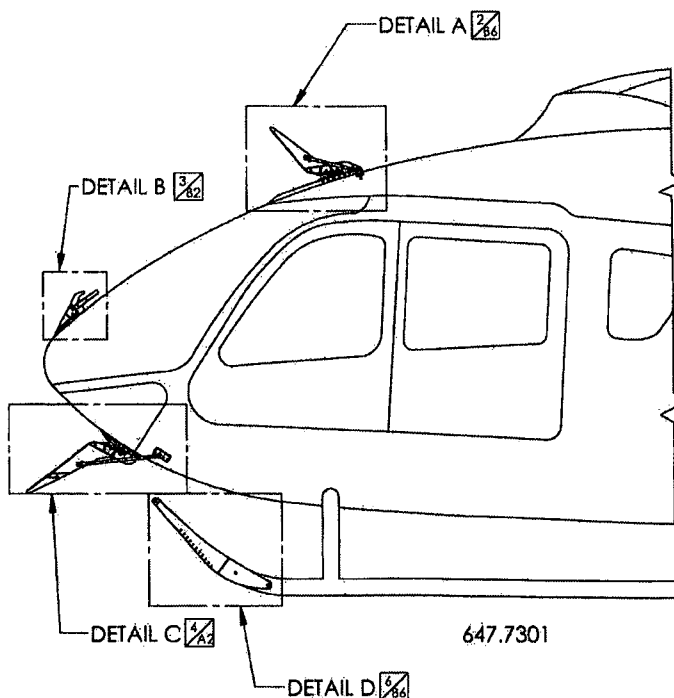


100	A	647.5701	REF	GPS MOUNT KIT	△	
F/N	TC	PART NUMBER	QTY	DESCRIPTION	MATERIAL	SPECIFICATION
DOCUMENTS EFFECTED:				☐ MDL ☐ INSTALL INSTRU ☐ ICA ☒ BOM	CHANGE CATEGORY ☐ MAJOR ☒ MINOR	DER REVIEW REQUIRED ☐ YES ☒ NO

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

NOTES: UNLESS OTHERWISE SPECIFIED

- 1 AFTER INSTALLATION, APPLY F/N 90 A/R TO FILL GAPS AND FILLET EDGES.
- 2 APPLY F/N 91 TO FAYING SURFACES.
- 3 AT CUSTOMERS OPTION, INSTALL F/N 92 BY MATCH DRILLING ONTO F/N 1 OR F/N 2.
- 4 MATCH DRILL HOLES THROUGH F/N 26 AND FUSELAGE.
- 5 SHIM GAP BETWEEN F/N 1 & 26 AS NEEDED.
- 6 AT CUSTOMERS OPTION, INSTALL F/N 101 BY MATCH DRILLING ONTO F/N 1.



647.7301

UNINCORPORATED ECN(S)

03044

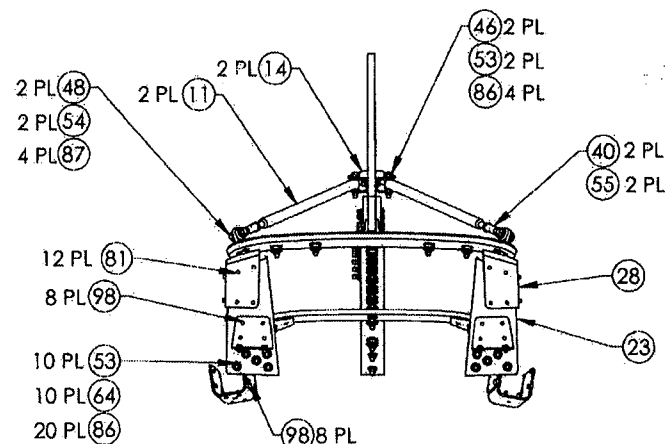
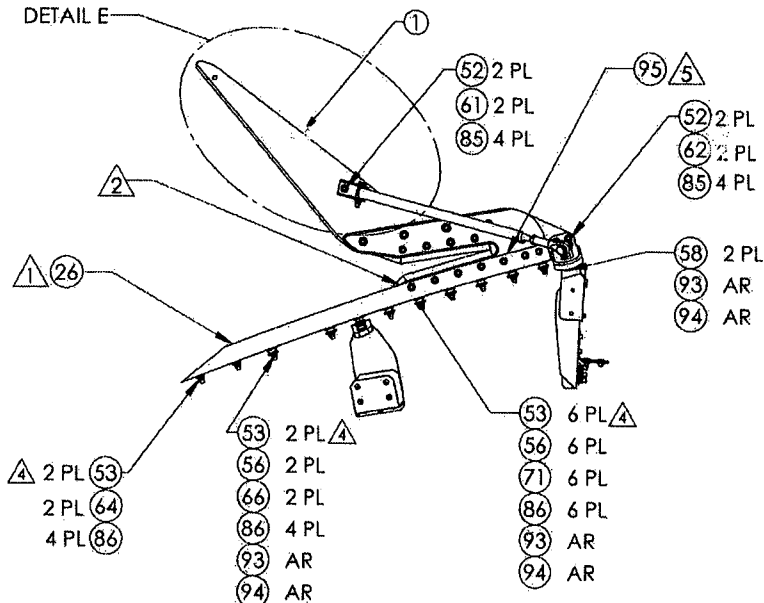
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24	24	99	601.3213	CHERRY RIVET
8	8	98	601.3214	CHERRY RIVET
4	4	97	601.3212	CHERRY RIVET
8	8	96	601.1097	WASHER
1	1	95	647.7919	SHIM
1	1	94	600.0990	MAGNOBOND 6398 PART B
1	1	93	600.0991	MAGNOBOND 6398 PART B
REF	92	647.5701	GPS MOUNT KIT	
1	1	91	601.2045	RTV
1	1	90	600.1012	SEALANT
3	3	89	601.2375	WASHER
4	4	88	601.3126	WASHER
8	8	87	601.2638	WASHER
12	74	86	601.1607	WASHER
12	2	85	601.2764	WASHER
2	2	84	601.3136	CHERRY RIVET
8	8	83	601.3215	CHERRY RIVET
8	8	82	601.3216	CHERRY RIVET
12	12	81	601.2481	CHERRY RIVET
16	16	98	601.2020	CHERRY RIVET
17	17	79	601.2991	CHERRY RIVET
8	8	78	601.1183	CHERRY RIVET
16	16	99	601.1915	CHERRY RIVET
24	24	97	601.0790	CHERRY RIVET
4	4	75	601.1604	CHERRY RIVET
4	4	74	601.1983	NUTPLATE RIVET
24	24	73	601.2207	NUTPLATE RIVET
3	3	72	601.2999	SCREW
6	6	71	601.2829	SCREW
2	2	70	601.1954	SCREW
4	4	69	601.2637	SCREW
1	1	68	601.3012	SCREW
4	4	67	601.1622	SCREW
2	2	66	601.1953	SCREW
6	6	65	601.1365	SCREW
12	12	64	601.3069	SCREW
3	3	63	601.2198	SCREW
2	2	62	601.3137	SCREW
4	4	61	601.2988	SCREW
1	1	60	601.2525	SCREW
4	4	59	601.3127	LOCKNUT
2	2	58	647.8512	INSERT
4	4	57	647.8511	INSERT
19	19	56	647.8510	INSERT
4	4	55	601.3128	NUT
8	8	54	601.3209	LOCKNUT
4	30	53	601.2943	LOCKNUT
6	1	52	601.2973	LOCKNUT
4	4	51	601.3002	BOLT
4	4	50	601.3130	BOLT
4	4	49	601.1500	BOLT
4	4	48	601.2669	BOLT
1	1	47	601.1324	BOLT
4	4	46	601.2826	BOLT
2	2	45	601.2823	BOLT
12	12	44	600.0795	NUTPLATE
2	2	43	601.3004	CAMLOC STUD
7303	7302	7301		
REF	100	647.5701	GPS MOUNT KIT	
24	24	99	601.3213	CHERRY RIVET
8	8	98	601.3214	CHERRY RIVET
4	4	97	601.3212	CHERRY RIVET
8	8	96	601.1097	WASHER
1	1	95	647.7919	SHIM
1	1	94	600.0990	MAGNOBOND 6398 PART B
1	1	93	600.0991	MAGNOBOND 6398 PART B
REF	92	647.5701	GPS MOUNT KIT	
1	1	91	601.2045	RTV
1	1	90	600.1012	SEALANT
3	3	89	601.2375	WASHER
4	4	88	601.3126	WASHER
8	8	87	601.2638	WASHER
12	74	86	601.1607	WASHER
12	2	85	601.2764	WASHER
2	2	84	601.3136	CHERRY RIVET
8	8	83	601.3215	CHERRY RIVET
8	8	82	601.3216	CHERRY RIVET
12	12	81	601.2481	CHERRY RIVET
16	16	98	601.2020	CHERRY RIVET
17	17	79	601.2991	CHERRY RIVET
8	8	78	601.1183	CHERRY RIVET
16	16	99	601.1915	CHERRY RIVET
24	24	97	601.0790	CHERRY RIVET
4	4	75	601.1604	CHERRY RIVET
4	4	74	601.1983	NUTPLATE RIVET
24	24	73	601.2207	NUTPLATE RIVET
3	3	72	601.2999	SCREW
6	6	71	601.2829	SCREW
2	2	70	601.1954	SCREW
4	4	69	601.2637	SCREW
1	1	68	601.3012	SCREW
4	4	67	601.1622	SCREW
2	2	66	601.1953	SCREW
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12	12	64	601.3069	SCREW
3	3	63	601.2198	SCREW
2	2	62	601.3137	SCREW
4	4	61	601.2988	SCREW
1	1	60	601.2525	SCREW
4	4	59	601.3127	LOCKNUT
2	2	58	647.8512	INSERT
4	4	57	647.8511	INSERT
19	19	56	647.8510	INSERT
4	4	55	601.3128	NUT
8	8	54	601.3209	LOCKNUT
4	30	53	601.2943	LOCKNUT
6	1	52	601.2973	LOCKNUT
4	4	51	601.3002	BOLT
4	4	50	601.3130	BOLT
4	4	49	601.1500	BOLT
4	4	48	601.2669	BOLT
1	1	47	601.1324	BOLT
4	4	46	601.2826	BOLT
2	2	45	601.2823	BOLT
12	12	44	600.0795	NUTPLATE
2	2	43	601.3004	CAMLOC STUD
7303	7302	7301		
REF	100	647.5701	GPS MOUNT KIT	
24	24	99	601.3213	CHERRY RIVET
8	8	98	601.3214	CHERRY RIVET
4	4	97	601.3212	CHERRY RIVET
8	8	96	601.1097	WASHER
1	1	95	647.7919	SHIM
1	1	94	600.0990	MAGNOBOND 6398 PART B
1	1	93	600.0991	MAGNOBOND 6398 PART B
REF	92	647.5701	GPS MOUNT KIT	
1	1	91	601.2045	RTV
1	1	90	600.1012	SEALANT
3	3	89	601.2375	WASHER
4	4	88	601.3126	WASHER
8	8	87	601.2638	WASHER
12	74	86	601.1607	WASHER
12	2	85	601.2764	WASHER
2	2	84	601.3136	CHERRY RIVET
8	8	83	601.3215	CHERRY RIVET
8	8	82	601.3216	CHERRY RIVET
12	12	81	601.2481	CHERRY RIVET
16	16	98	601.2020	CHERRY RIVET
17	17	79	601.2991	CHERRY RIVET
8	8	78	601.1183	CHERRY RIVET
16	16	99	601.1915	CHERRY RIVET
24	24	97	601.0790	CHERRY RIVET
4	4	75	601.1604	CHERRY RIVET
4	4	74	601.1983	NUTPLATE RIVET
24	24	73	601.2207	NUTPLATE RIVET
3	3	72	601.2999	SCREW
6	6	71	601.2829	SCREW
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4	4	67	601.1622	SCREW
2	2	66	601.1953	SCREW
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12	12	64	601.3069	SCREW
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4	4	61	601.2988	SCREW
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4	4	59	601.3127	LOCKNUT
2	2	58	647.8512	INSERT
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19	19	56	647.8510	INSERT
4	4	55	601.3128	NUT
8	8	54	601.3209	LOCKNUT
4	30	53	601.2943	LOCKNUT
6	1	52	601.2973	LOCKNUT
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4	4	50	601.3130	BOLT
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4	4	48	601.2669	BOLT
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2	2	43	601.3004	CAMLOC STUD
7303	7302	7301		
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24	24	99	601.3213	CHERRY RIVET
8	8	98	601.3214	CHERRY RIVET
4	4	97	601.3212	CHERRY RIVET
8	8	96	601.1097	WASHER
1	1	95	647.7919	SHIM
1	1	94	600.0990	MAGNOBOND 6398 PART B
1	1	93	600.0991	MAGNOBOND 6398 PART B
REF	92	647.5701	GPS MOUNT KIT	
1	1	91	601.2045	RTV
1	1	90	600.1012	SEALANT
3	3	89	601.2375	WASHER
4	4	88	601.3126	WASHER
8	8	87	601.2638	WASHER
12	74	86	601.1607	WASHER
12	2	85	601.2764	WASHER
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8	8	82	601.3216	CHERRY RIVET
12	12	81	601.2481	CHERRY RIVET
16	16	98	601.2020	CHERRY RIVET
17	17	79	601.2991	CHERRY RIVET
8	8	78	601.1183	CHERRY RIVET
16	16	99	601.1915	CHERRY RIVET
24	24	97	601.0790	CHERRY RIVET
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4	4	74	601.1983	NUTPLATE RIVET
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3	3	72	601.2999	SCREW
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1	1	68	601.3012	SCREW
4	4	67	601.1622	SCREW
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6	6	65	601.1365	SCREW
12	12	64	601.3069	SCREW
3	3	63	601.2198	SCREW
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4	4	61	601.2988	SCREW
1	1	60	601.2525	SCREW
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2	2	58	647.8512	INSERT
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19	19	56	647.8510	INSERT
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8	8	54	601.3209	LOCKNUT
4	30	53	601.2943	LOCKNUT
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4	4	50	601.3130	BOLT
4	4	49	601.1500	BOLT
4	4	48	601.2669	BOLT
1	1	47	601.1324	BOLT
4	4	46	601.2826	BOLT
2	2	45	601.2823	BOLT
12	12	44	600.0795	NUTPLATE
2	2	43	601.3004	CAMLOC STUD
7303	7302	7301		

REV.	DESCRIPTION	DATE	APPROVED
1	LAST PROTOTYPE RELEASE: P/N		N/C
N/C	INITIAL RELEASE	01/13/99	P. BRAVO
A	INCORPORATED ECN(S) 02136, 02005, 02041, 02042	02/14/01	P. BRAVO

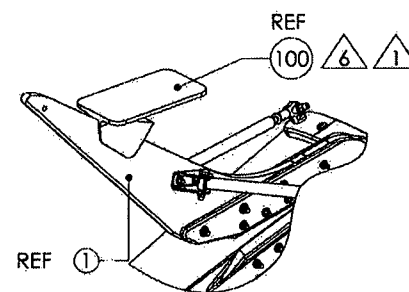
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-----	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

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DETAIL E



DETAIL A

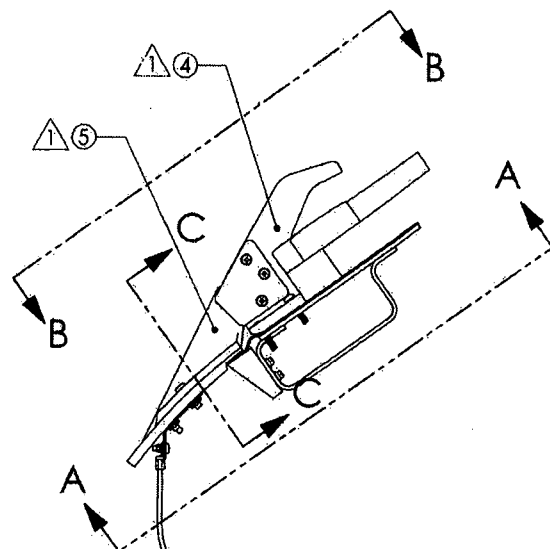


DETAIL E
TYPICAL GPS MOUNT KIT INSTALLATION

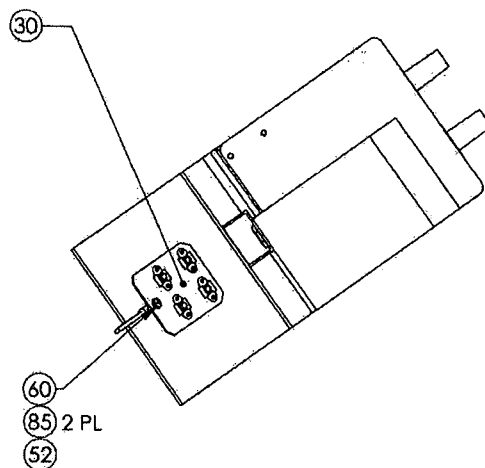
ORIGINAL DATE 10/24/00		APICAL INDUSTRIES	
DRAWN BY A. QUINN		2608 TEMPLE HEIGHTS DR.	
CHECKED BY P. BRAY		OCEANSIDE, CA. 92056-3512 (760)724-5300	
CONTRACT NO.		EC135 CABLE CUTTERS KIT	
THINKS OTHERS OR SPECIFIC INSTRUCTIONS ARE NEEDED FOR THIS KIT		REV. NO. 8	647.7300
SCALE: NONE		SHEET 2 OF 6	

1 2 3 4 5 6 7 8

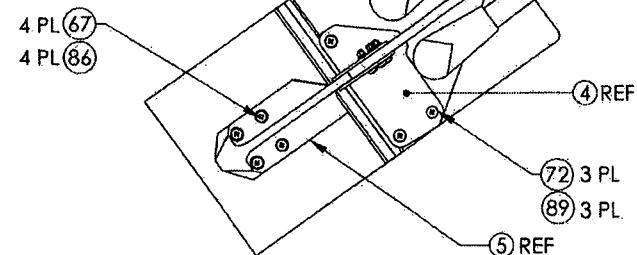
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.



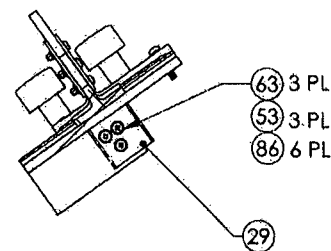
DETAIL B



SECTION A-A



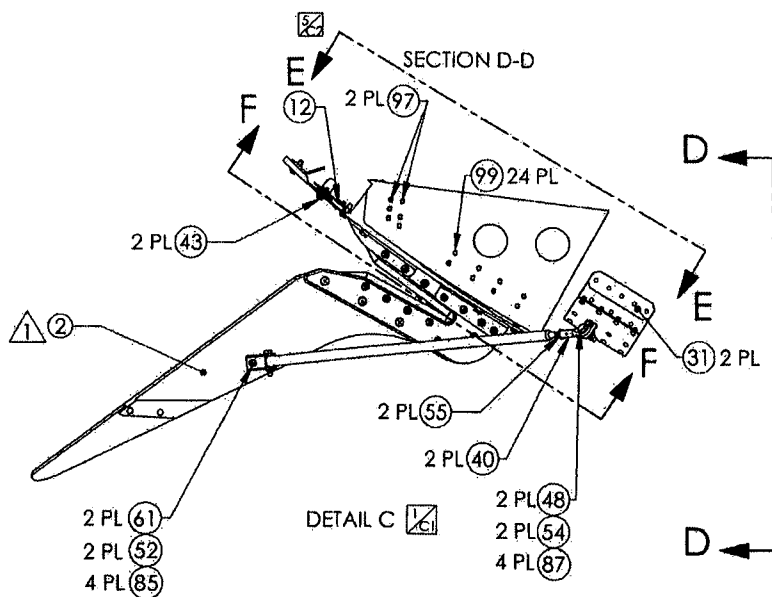
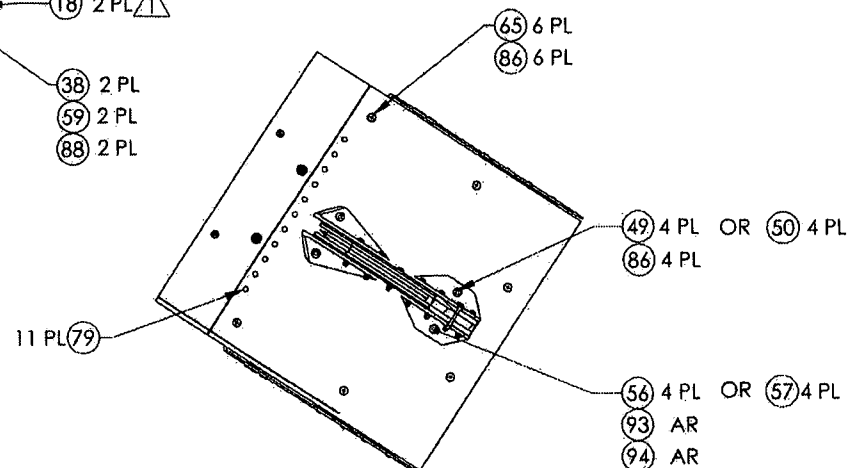
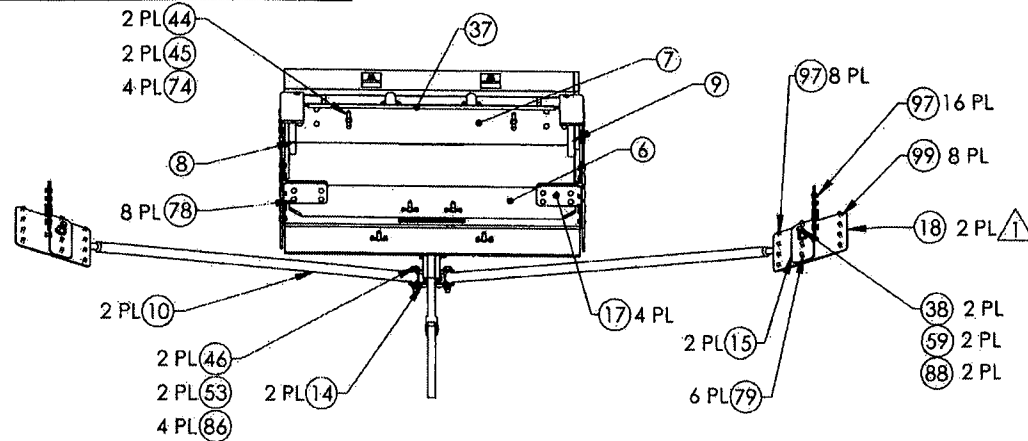
SECTION B-B



SECTION C-C

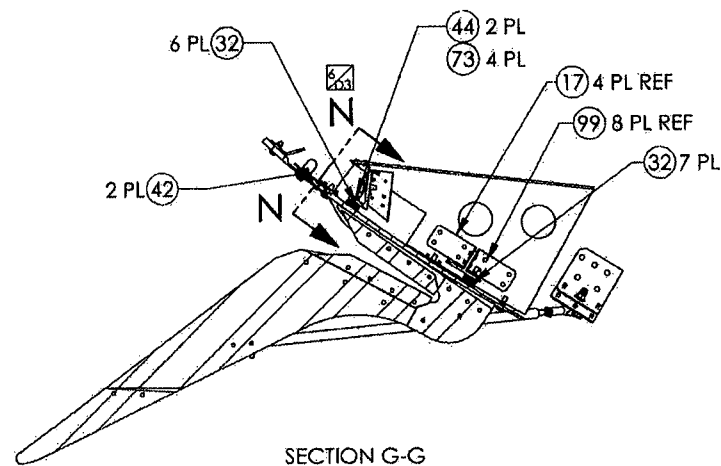
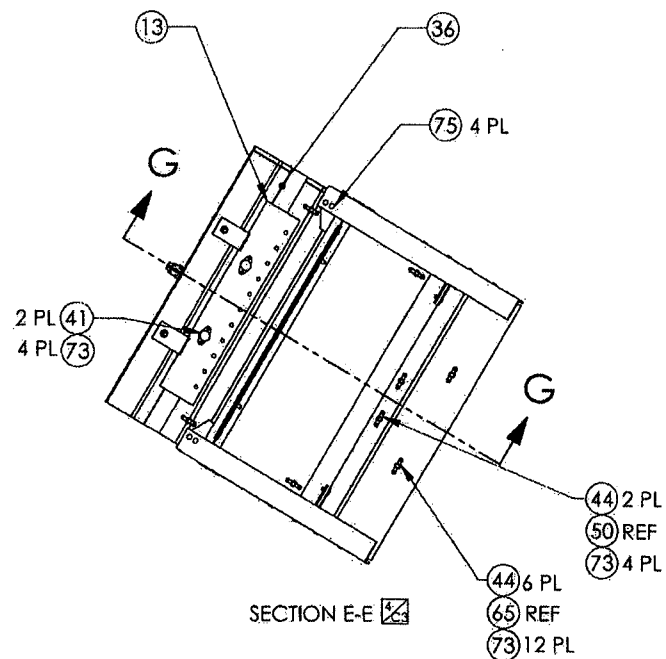
ORIGINAL DATE 11/2/87		APICAL INDUSTRIES	
DRAWN BY A. QIAN		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKED BY P. BRAYO		EC135 CABLE CUTTERS KIT	
CONTRACT NO.		REV. A	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONS DECIMALS FRACTIONS DECIMALS FRACTIONS DECIMALS		REV. A	
CAGE CODE B 07M26		ENG. NO. 647.7300	REV. A
SCALE: NONE		SHEET 3 OF 6	

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ORIGINAL DATE 11/24/09		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760) 724-5300	
DRAWN BY A. GUAN		CHECKED BY D. BARBER	
DESIGNED BY P. BRAYO		EC135 CABLE CUTTERS KIT	
CDR/PACT No.		DATE CODE B 07M12	DWG. NO. 647.7300
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DECIMALS TO TWO PLACES FRACTIONS TO EIGHT PLACES ANGLES TO 1/2		SCALE: NONE	REV. A SHEET 4 OF 6

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF
APICAL INDUSTRIES ANY REPRODUCTION IN PART OR WHOLE WITHOUT
THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.



ORIGINAL DATE		APICAL INDUSTRIES	
DESIGNED BY		2808 TEMPLE HEIGHTS DR.	
DRAWN BY		OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKED BY		EC135 CABLE CUTTERS KIT	
APPROVED BY		REV. A	
CONTRACT NO.		SCALE: NONE	
UNLESS OTHERWISE SPECIFIED		SHEET 5 OF 6	
DIMENSIONS ARE IN INCHES			
FRACTIONS ARE TO BE SHOWN			
DECIMALS TO BE SHOWN			
ANGLES TO BE SHOWN			

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

8 PL (99)

(45) REF
(86) 2 PL

INBOARD →

2 PL (51)
2 PL (96)

(3)

(33) 2 PL
(34) 2 PL

(54) 2 PL
(96) 2 PL

DETAIL D 
TYP 2 PL 

SECTION N-N 

ORIGINAL DATE: 11/01/00		APICAL INDUSTRIES	
DRAWN BY: A. COHAM		2608 TEMPLE HEIGHTS DR.	
CHECKED BY: P. BRAYD		OCEANSIDE, CA. 92056-3512 (760) 724-5300	
CONTRACT NO.		EC135 CABLE CUTTERS KIT	
REV. B	CAGE CODE 07M26	DWG. NO. 647.7300	REV. A
SCALE: NONE		SHEET 6 OF 6	

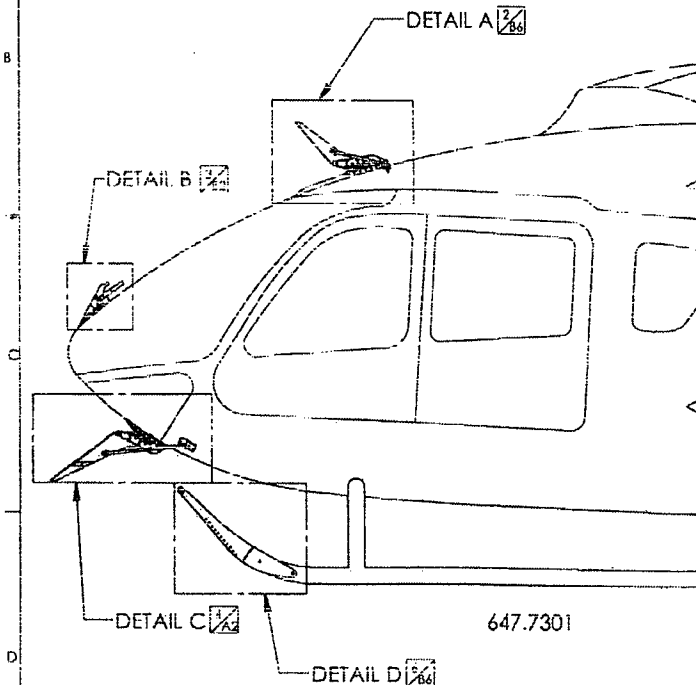
REFERENCE ONLY

DAS
28
9-89

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APICAL INDUSTRIES ANY REPRODUCTION IN PART OR WHOLE WITHOUT
THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

NOTES: UNLESS OTHERWISE SPECIFIED

- 1 AFTER INSTALLATION, APPLY F/N 90 A/R TO FILL GAPS AND FILLET EDGES.
- 2 APPLY F/N 91 TO FAYING SURFACES.
- 3 AT CUSTOMERS OPTION, INSTALL F/N 92 BY MATCH DRILLING
ONTO F/N 1 OR F/N 2.
- 4 MATCH DRILL HOLES THROUGH F/N 26 AND FUSELAGE.
- 5 SHIM GAP BETWEEN F/N 1 & 26 AS NEEDED.
- 6 AT CUSTOMERS OPTION, INSTALL F/N 101 BY MATCH DRILLING ONTO F/N 1.



UNINCORPORATED ECN(S)

60044

			REF	100	647.5701	GPS MOUNT KIT			
	24	24	99	601.3213	CHERRY RIVET		CR3213-4-4		
	8	8	98	601.3214	CHERRY RIVET		CR3213-5-3		
	4	4	97	601.3212	CHERRY RIVET		CR3213-4-3		
8		8	96	601.1097	WASHER		NAS11490463P		
	1	1	95	647.7919	SHIM				
	1	1	94	600.0990	MAGNOBOND 6398 PART				
	1	1	93	600.0991	MAGNOBOND 6398 PART				
		REF	92	647.5701	GPS MOUNT KIT				
1		1	91	601.2045	RIV		LOCHE 998		
	1	1	90	600.1012	SEALANT		PP-1425 CLASS 9		
	3	3	89	601.2375	WASHER				
	4	4	88	601.3126	WASHER		NAS114910502P		
8		8	87	601.2638	WASHER		NAS11490432P		
12	74	86	86	601.1607	WASHER		NAS11490332P		
12	2	14	85	601.2764	WASHER		NAS1149N832P		
	2	2	84	601.3136	CHERRY RIVET		CR3212-6-6		
	8	8	83	601.3215	CHERRY RIVET		CP3525-5-3		
	8	8	82	601.3216	CHERRY RIVET		CR3212-4-5		
	12	12	81	601.2481	CHERRY RIVET		CR3213-5-4		
	16	16	98	601.2020	CHERRY RIVET		CR3213-5-3		
	17	17	79	601.2891	CHERRY RIVET		CR3213-1-6		
	8	8	78	601.1163	CHERRY RIVET		CR3213-5-5		
	1A	1A	99	601.1915	CHERRY RIVET		CR3213-1-4		
	24	24	97	601.0790	CHERRY RIVET		CR3213-4-3		
	4	4	75	601.1604	CHERRY RIVET		CR3213-4-2		
	4	4	74	601.1283	MULTIPLATE RIVET		CR3213-4-3		
	24	24	73	601.2207	MULTIPLATE RIVET		CR3213-4-3		
	3	3	72	601.2999	SCREW		MS27039-1-10		
	6	6	71	601.2829	SCREW		MS27039-1-12		
	2	2	70	601.1954	SCREW		MS27039-1-14		
	4	4	69	601.2637	SCREW		MS27039-1-16		
	1	1	68	601.3012	SCREW		MS27039-1-18		
	4	4	67	601.1622	SCREW		MS27039-1-14		
	7	7	66	601.1953	SCREW		MS27039-1-12		
	6	6	65	601.1365	SCREW		MS27039-1-10		
	12	12	64	601.3069	SCREW		MS27039-1-08		
	3	3	63	601.2198	SCREW		MS27039-1-07		
2		2	62	601.3137	SCREW		MS27039-0816		
4		4	61	601.2988	SCREW		MS27039-0818		
	1	1	60	601.2525	SCREW		MS27039-0820		
	4	4	59	601.3127	LOCKNUT		MS210426		
	2	2	58	647.8512	INSERT				
	4	4	57	647.8511	INSERT				
	19	19	56	647.8510	INSERT				
4		4	55	601.3128	NUT		MS210426		
8		8	54	601.3209	LOCKNUT		MS210426		
4	30	34	53	601.2943	LOCKNUT		MS210426		
6	1	7	52	601.2973	LOCKNUT		MS210426		
4		4	51	601.3002	BOLT		NAS6004-65		
4		4	50	601.3130	BOLT		NAS6004-16		
4		4	49	601.3131	BOLT		NAS6004-12		
4		4	48	601.2669	BOLT		ANAC7A		
	1	1	47	601.1324	BOLT		ANAC7A		
4		4	46	601.2526	BOLT		AN3-11A		
	2	2	45	601.2023	BOLT		AN3-11A		
	12	12	44	600.0795	MULTIPLATE		MS210426		
	2	2	43	601.3004	CAMLOC STUD				
7303	7302	7301	7303	PART #	DESCRIPTION		MATI	SPE	

REV	DESCRIPTION	DATE	APPROVED
1	LAKE PROTOTYPE REVISION RPA		NIC
2	REVISION	01/12/09	P. BRAY
3	INCORPORATED ECN(S)	07/11/11	P. BRAY

2	2	42	601.3005	CAMLOC RETAINER	
2	2	41	601.3006	CAMLOC RECEPTACLE	
4	4	40	601.3119	CLEVIS	AN665-34R
2	2	39	601.3120	EYE BOLT	AN44-12A
2	2	38	601.3121	EYE BOLT	AN44-5A
1.5FT	1.5FT	37	601.3007	GROMMET	MS71266-2H
1.5FT	1.5FT	36	601.3011	P-SEAL	
1	1	35	647.3201	GROUNDING CABLE ASSY	
4	4	34	647.2511	NUT	
4	4	33	647.2510	SLEEVE	
13	13	32	647.1812	SHIM	
2	2	31	647.1811	SPACER	
1	1	30	647.1602	DOUBLER ASSY	
1	1	29	647.1914	BRACKET	
1	1	28	647.7822	EYE BOLT FITTING RH	
1	1	27	647.7821	EYE BOLT FITTING LH	
1	1	26	647.7818	MOUNTING CHANNEL	
1	1	25	647.7820	CROSS BRACKET AFI	
1	1	24	647.7619	CROSS BRACKET FWD	
1	1	23	647.7918	BRACKET	
1	1	22	647.7917	BRACKET	
2	2	21	647.7916	BRACKET	
1	1	20	647.7915	BRACKET	
1	1	19	647.7914	BRACKET	
2	2	18	647.7712	DOUBLER	
4	4	17	647.1912	CLIP	
2	2	16	647.7913	BRACKET	
2	2	15	647.7910	ANGLE BRACKET	
1	1	14	647.0112	STRUT BRACKET	
1	1	13	647.1810	NOSE DOOR DOUBLER	
1	1	12	647.1818	NOSE DOOR SPACER	
2	2	11	647.7701	STRUT ASSY	
2	2	10	647.7702	STRUT ASSY	
1	1	9	647.1815	GUSSET RH	
1	1	8	647.1814	GUSSET LH	
1	1	7	647.1915	SUPPORT ANGLE	
1	1	6	647.1913	TEE	
1	1	5	647.1810	WIPER DEFLECTOR, FWD	
1	1	4	647.1601	WIPER DEFLECTOR ASSY, AET	
2	2	3	647.1701	SKID DEFLECTOR ASSY	
1	1	2	647.7501	LOWER CUTTER ASSY	
1	1	1	647.7401	UPPER CUTTER ASSY	
			647.7303	REMOVABLE PROVISIONS KIT	
			647.7302	FIXED PROVISIONS KIT	
			647.7301	EC135 CABLE CUTTERS KIT	
7303	7302	7301		PART #	DESCRIPTION

QTY	DESCRIPTION	MATL	SPEC
NEXT ASSY (S)	APICAL INDUSTRIES		
	2620 TEMPLE HEIGHTS DR.		
	OCLANDSIDE, CA. 92055-5512 (760)724-5300		
	EC135 CABLE CUTTERS KIT		
	647.7300		
	SCALE NONE		
	SHEET 1 OF 4		

Work Order ID 138078

138078

Page 1

Tuesday, November 03, 2015 11:41:30 AM

DUPLICATE

Item ID: 647.7303

Accept

N900040100

Setup

Start

NS1

Revision ID:

Stop

NS2

Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 10/23/2015 Start Qty: 2.00

2

Cust Item ID:

Required Date: 11/19/2015 Req'd Qty: 2.00

2

Customer:

Reference:

Approvals: Process Plan: MF

Date: 11-04

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run

Start

NR1

Stop

NR2

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
647.7300	A

100	Document Control	0.00
100	DOCUMENT CONTROL	
DC	Memo	0.00
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 647.7303	

MC5 NOV 04 2015

2

110	Pick Kit	0.00
110		
Packaging	Memo	0.00
Packaging		

NOV 03 2015

120	QC4- 100% Inspect kits for completeness	0.00
120		
QC	Memo	0.00
Quality Control		